CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.10/CJ/CEMENT/2013-14

Date: 29.07.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. C. Jayakumar**, Contractor, Bangalore.
NAME OF THE WORK	:	Providing RCC Drain at Ashwini Garden and Parallel roads in Ward No.10, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-Proc/(4250)/WO/99/2013-14 Dated: 26.072013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.10/CJ/SAND/2013-14 : 29.07.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Jayakumar,** Contractor, Bangalore.

Name of Work : Providing RCC Drain at Ashwini Garden and Parallel roads in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4250)/WO/99/2013-14 Dated: 26.072013

Date of Testing : 29.07.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	223	11.15	16.25	83.8	75-100
1.18	515	25.75	42.00	58.0	55-90
600 Micron	421	21.05	63.05	37.0	35-59
300 Micron	487	24.35	87.40	12.6	8-30
150 Micron	203	10.15	97.55	2.5	0-10

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Job No.: CTCE/BBMP/W.No.10/CJ/AGG/2013-14 : 29.07.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Jayakumar,** Contractor, Bangalore.

Name of Work : Providing RCC Drain at Ashwini Garden and Parallel roads in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4250)/WO/99/2013-14 Dated: 26.072013

Date of Testing : 29.07.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	985	3.79	3.79	96.21	95-100
20	15360	59.08	62.87	37.13	30-70
10	5780	22.23	85.10	14.90	10-35
4.75	2645	10.17	95.27	4.73	0-5

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Job No.: CTCE/BBMP/W.No.10/CJ/STEEL/2013-14 30.07.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Jayakumar**, Contractor, Bangalore.
Name of the work	:	Providing RCC Drain at Ashwini Garden and Parallel roads in Ward No.10, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-Proc/(4250)/WO/99/2013-14 Dated: 26.072013
Date of Test	:	30.07.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/CJ/STEEL/2013-14 30.07.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Jayakumar**, Contractor, Bangalore.
Name of the work	:	Providing RCC Drain at Ashwini Garden and Parallel roads in Ward No.10, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-Proc/(4250)/WO/99/2013-14 Dated: 26.072013
Date of Test	:	30.07.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/CJ/CUBE/2013-14

29.08.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. C. Jayakumar,** Contractor, Bangalore.
Name of the work	: Providing RCC Drain at Ashwini Garden and Parallel roads in Ward No.10, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-Proc/(4250)/WO/99/2013-14 Dated: 26.072013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.08.2013	29.08.2013	8.258	493.2	21.92
2	01.08.2013	29.08.2013	8.376	505.6	22.47
3	01.08.2013	29.08.2013	8.192	487.5	21.67

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